

Source: All Sources : Area of Law - By Topic : Patent Law : Patents : U.S. Patents : Utility Patents 
Terms: patno is 5712479 ([Edit Search](#))

Pat. No. 5712479, *

5,712,479

♦ [GET 1st DRAWING SHEET OF 10](#)

Jan. 27, 1998

Spatial-velocity correlation focusing in time-of-flight mass spectrometry

REISSUE: Reissue Application filed Jun. 1, 1999 (O.G. Jul. 13, 1999) Ex. Gp.: 2878; Re. S.N. 09/324,098

INVENTOR: Reilly, James P., Bloomington, Indiana
Colby, Steven M., Bloomington, Indiana
King, Timothy B., Bloomington, Indiana

ASSIGNEE-AT-ISSUE: Indiana University Foundation, Bloomington, Indiana (02)

APPL-NO: 566,140

FILED: Dec. 1, 1995

REL-US-DATA:

Continuation of Ser. No. 327,618, Oct. 24, 1994 now patented 5,504,326 Apr. 2, 1996

INT-CL: [6] H01J 49#40

US-CL: 250#282; 250#287

CL: 250

SEARCH-FLD: 250#287, 282, 281, 286

REF-CITED:

U. S. PATENT DOCUMENTS

2,685,035	7/1954 *	Wiley	250#287
4,694,167	9/1987 *	Payne et al.	250#287
5,160,840	11/1992 *	Vestal	250#287
5,504,326	4/1996 *	Reilly et al.	250#287
5,510,613	4/1996 *	Reilly et al.	250#287

PRIM-EXMR: Nguyen, Kiet T.

LEGAL-REP: Woodard, Emhardt, Naughton, Moriarty & McNett

CORE TERMS: region, velocity, sample, equation, detector, voltage, grid, ion, time-of-flight, electric field, flight, parameter, focusing, peak, spread, laser, accelerating, width, correlation, spatial-velocity, spectrometer, algorithm, geometry, variable, spatial, acceleration, drift, ratio, experimental, electric

ABST:

An apparatus and method for minimizing ion peak width measurements in a time-of-flight mass

Source: All Sources : Area of Law - By Topic : Patent Law : Patents : U.S. Patents : Utility Patents 
Terms: patno is 5504326 ([Edit Search](#))

Pat. No. 5,504,326, *

5,504,326

♦ [GET 1st DRAWING SHEET OF 10](#)

Apr. 2, 1996

Spatial-velocity correlation focusing in time-of-flight mass spectrometry

INVENTOR: Reilly, James P., Bloomington, Indiana
Colby, Steven M., Bloomington, Indiana
King, Timothy B., Bloomington, Indiana

ASSIGNEE-AT-ISSUE: Indiana University Foundation, Bloomington, Indiana (02)

ASSIGNEE-AFTER-ISSUE: Date Transaction Recorded: Dec. 22, 1997
ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
ADVANCED RESEARCH & TECHNOLOGY INSTITUTE 501 NORTH MORTON STREET, SUITE 111
BLOOMINGTON, INDIANA 47404
Reel & Frame Number: 8861/0293

APPL-NO: 327,618

FILED: Oct. 24, 1994

CERTCORR: Dec. 24, 1996 a Certificate of Correction was issued for this patent

INT-CL: [6] H01J 49#40

US-CL: 250#282; 250#287

CL: 250

SEARCH-FLD: 250#282, 287, 281, 282, 286

REF-CITED:

U. S. PATENT DOCUMENTS

2,685,035	7/1954	* Wiley	
<u>4,694,167</u>	9/1987	* Payne et al.	250#287
<u>5,160,840</u>	11/1992	* Vestal	250#282

OTHER PUBLICATIONS

"Pulsed Ion Extraction Combined With High Accelerating Potentials For Matrix-Assisted Laser Desorption Time-of-Flight Mass Spectrometry", John J. Lennon and Robert S. Brown, from the 42nd ASMS Conference on Mass Spectrometry in Chicago, Illinois, Jun., 1994.

B. Spengler, et al., "Ultraviolet Laser Desorption/Ionization Mass Sepctrometry of Proteins above 100000 Daltons by Pulsed Ion Extraction Time-of-Flight Analysis", Anal. Chem., vol. 62, No. 8, Apr. 1990, pp. 793-796.

V. I. Karataev, et al., "New Method for Focusing Ion Bunches in Time of Flight Mass Spectrometers", Sov. Phys. Tech. Phys., vol. 16, No. 7, Jan. 1972, pp. 1177-1179.

B. A. Mamyrin, et al., "The mass-reflectron, a new nonmagnetic time of flight mass spectrometer

lexis.com™

Practice Pages | Change Client | Options | Feedback | Sign Off | Help

Search | Search Advisor | Get a Document | Check a Citation | ECLIPSE™ | History

Sources

All Sources : Area of Law - By Topic : Patent Law : Multi-Source Groups : Intellectual Property Cases, Administrative Decisions & Regulations

Enter Search Terms

Terms and Connectors Natural Language

5712479 or 5,712,479 or 5504326 or 5,504,326

Use connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)

Suggest Words and Concepts for Entered Terms

Restrict Search Using Document Segments

Optional: Restrict by Date

No Date Restrictions From To

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (**5712479 or 5,712,479 or 5504326 or 5,504,326**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

[Edit Search](#)

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

[Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.](#)

lexis.com™

Practice Pages | Change Client | Options | Feedback | Sign Off | Help | ECLIPSE™ | History

Search | Search Advisor | Get a Document | Check a Citation | Sources

All Sources : Area of Law - By Topic : Patent Law : Multi-Source Groups : Patent Cases, Administrative Decisions and Regulatory Materials 

Enter Search Terms

Terms and Connectors Natural Language

5712479 or 5,712,479 or 5504326 or 5,504,326

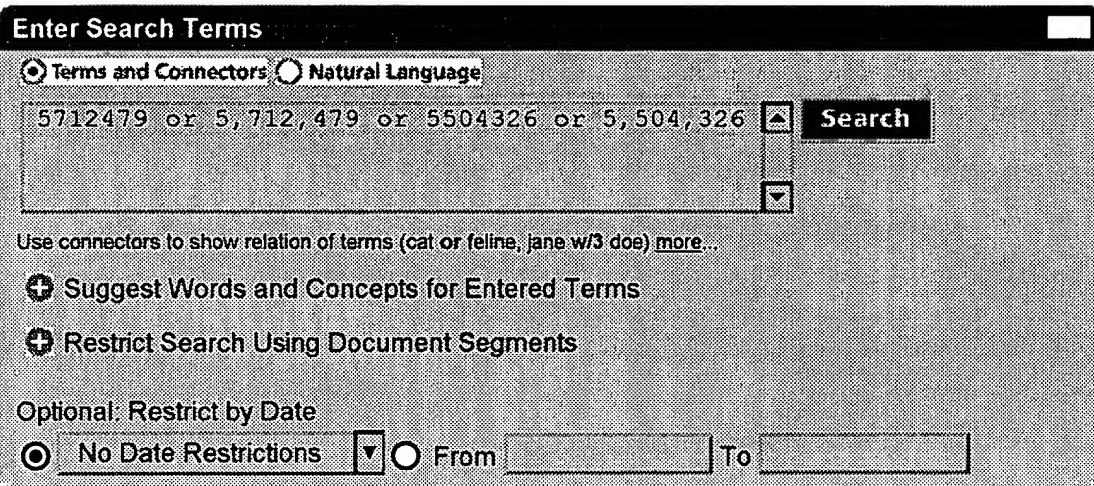
Use connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)

Suggest Words and Concepts for Entered Terms

Restrict Search Using Document Segments

Optional: Restrict by Date

No Date Restrictions From To



[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (**5712479 or 5,712,479 or 5504326 or 5,504,326**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

Edit Search

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

[Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.](#)

lexis.com™

Practice Pages | Change Client | Options | Feedback | Sign Off | Help | ECLIPSE™ | History

Search | Search Advisor | Get a Document | Check a Citation | Sources

All Sources : Area of Law - By Topic : Patent Law : Multi-Source Groups : Patent Cases from Federal Courts and Administrative Materials

Enter Search Terms

Terms and Connectors Natural Language

5712479 or 5,712,479 or 5504326 or 5,504,326

Use connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)

Suggest Words and Concepts for Entered Terms

Restrict Search Using Document Segments

Optional: Restrict by Date

No Date Restrictions From To

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (**5712479 or 5,712,479 or 5504326 or 5,504,326**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

[Edit Search](#)

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

[Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.](#)

lexis.com™

Practice Pages | Change Client | Options | Feedback | Sign Off | Help

Search Search Advisor Get a Document Check a Citation ECLIPSE™ History

Sources

All Sources : Area of Law - By Topic : Patent Law : Law Reviews & Journals : Intellectual Property Law Review Articles 

Enter Search Terms

Terms and Connectors Natural Language

5712479 or 5,712,479 or 5504326 or 5,504,326

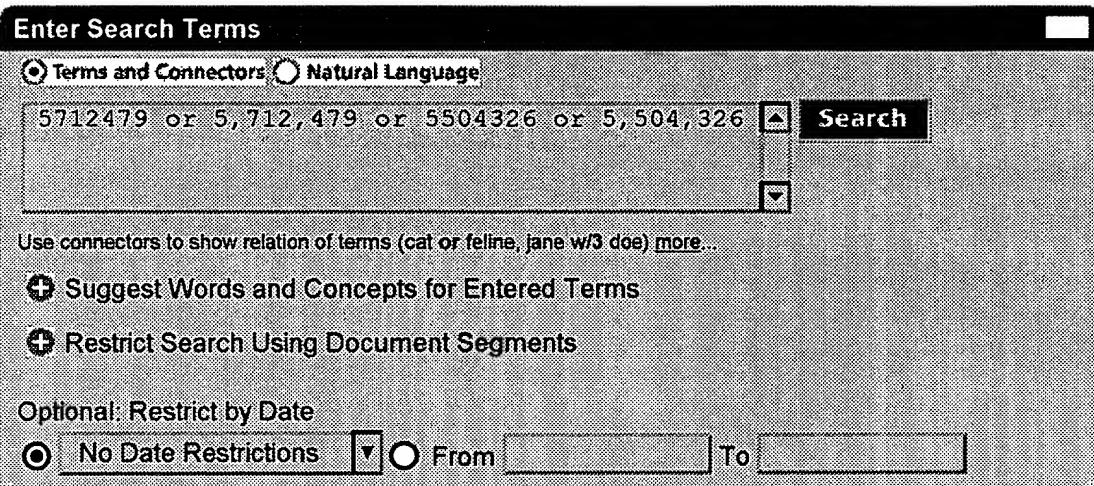
Use connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)

 Suggest Words and Concepts for Entered Terms

 Restrict Search Using Document Segments

Optional: Restrict by Date

No Date Restrictions From To



[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (**5712479 or 5,712,479 or 5504326 or 5,504,326**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

[Edit Search](#)

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

[Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.](#)

1/39/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
(c) 2001 EPO. All rts. reserv.

12964583

Basic Patent (No,Kind,Date): US 5504326 A 960402 <No. of Patents: 004>

Patent Family:

Patent No	Kind	Date	Applie No	Kind	Date
US 5504326	A	960402	US 327618	A	941024 (BASIC)
US 5510613	A	960423	US 477198	A	950607
US 5712479	A	980127	US 566140	A	951201
WO 9613052	A1	960502	WO 95US13650	A	951024

Priority Data (No,Kind,Date):

US 327618	A	941024
US 477198	A	950607
US 327618	A3	941024
US 566140	A	951201
US 327618	A1	941024

PATENT FAMILY:

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5504326 A 960402

SPATIAL-VELOCITY CORRELATION FOCUSING IN TIME-OF-FLIGHT MASS
SPECTROMETRY (English)

Patent Assignee: INDIANA UNIVERSITY FOUNDATION (US)

Author (Inventor): REILLY JAMES P (US); COLBY STEVEN M (US); KING
TIMOTHY B (US)

Priority (No,Kind,Date): US 327618 A 941024

Applie (No,Kind,Date): US 327618 A 941024

National Class: * 250282000; 250287000

IPC: * H01J-049/40

CA Abstract No: * 124(26)355755Q; 124(26)355755Q

Derwent WPI Acc No: * G 96-187815; G 96-221358; G 98-120071; G
96-187815

Language of Document: English

Patent (No,Kind,Date): US 5510613 A 960423

SPATIAL-VELOCITY CORRELATION FOCUSING IN TIME-OF-FLIGHT MASS
SPECTROMETRY (English)

Patent Assignee: INDIANA UNIVERSITY FOUNDATION (US)

Author (Inventor): REILLY JAMES P (US); COLBY STEVEN M (US); KING
TIMOTHY B (US)

Priority (No,Kind,Date): US 477198 A 950607; US 327618 A3 941024

Applie (No,Kind,Date): US 477198 A 950607

National Class: * 250287000; 250281000

IPC: * H01J-049/40

CA Abstract No: * 124(26)355755Q

Derwent WPI Acc No: * G 96-187815; G 96-221358; G 98-120071; G
96-221358

Language of Document: English

Patent (No,Kind,Date): US 5712479 A 980127

SPATIAL-VELOCITY CORRELATION FOCUSING IN TIME-OF-FLIGHT MASS
SPECTROMETRY (English)

Patent Assignee: INDIANA UNIVERSITY FOUNDATION (US)

Author (Inventor): REILLY JAMES P (US); COLBY STEVEN M (US); KING
TIMOTHY B (US)

Priority (No,Kind,Date): US 566140 A 951201; US 327618 A1 941024

Applie (No,Kind,Date): US 566140 A 951201

Addnl Info: 5504326 960402 Patented

National Class: * 250282000; 250287000

IPC: * H01J-049/40

CA Abstract No: * 124(26)355755Q
Derwent WPI Acc No: * G 96-187815; G 96-221358; G 98-120071; G 98-120071
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5504326 P 941024 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 327618 A 941024
US 5504326 P 941024 US AS02 ASSIGNMENT OF ASSIGNOR'S
INTEREST
INDIANA UNIVERSITY FOUNDATION SHOWALTER HOUSE
P.O. BOX 500 BLOOMINGTON, INDIANA ; REILLY,
JAMES P. : 19941024; COLBY, STEVEN M. :
19941024; KING, TIMOTHY B. : 19941024
US 5504326 P 960402 US A PATENT
US 5504326 P 961224 US CC CERTIFICATE OF CORRECTION
US 5510613 P 941024 US AA PRIORITY
US 327618 A3 941024
US 5510613 P 950607 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 477198 A 950607
US 5510613 P 960423 US A PATENT
US 5510613 P 961022 US CC CERTIFICATE OF CORRECTION
US 5712479 P 941024 US AA PRIORITY
US 327618 A1 941024
US 5712479 P 951201 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 566140 A 951201
US 5712479 P 980127 US A PATENT
US 5712479 P 990713 US RF REISSUE APPLICATION FILED
(REISSUE APPL. FILED)
19990601

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9613052 A1 960502

SPATIAL-VELOCITY CORRELATION FOCUSING IN TIME-OF-FLIGHT MASS
SPECTROMETRY (English)

Patent Assignee: INDIANA UNIVERSITY FOUNDATION (US)

Author (Inventor): REILLY JAMES P; COLBY STEVEN M; KING TIMOTHY B

Priority (No,Kind,Date): US 327618 A 941024

Applic (No,Kind,Date): WO 95US13650 A 951024

Designated States: (National) CA; JP (Regional) AT; BE; CH; DE; DK;
ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

Filing Details: WO 100000 With international search report

IPC: * H01J-049/40

CA Abstract No: * 124(26)355755Q

Derwent WPI Acc No: * G 96-187815; G 96-221358; G 98-120071

Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 9613052 P 941024 WO AA PRIORITY (PATENT)
US 327618 A 941024
WO 9613052 P 951024 WO AE APPLICATION DATA (APPL. DATA)
WO 95US13650 A 951024
WO 9613052 P 960502 WO AK DESIGNATED STATES CITED IN A
PUBLISHED APPLICATION WITH SEARCH REPORT

(DESIGNATED STATES CITED IN A PUBLISHED APPL.
WITH SEARCH REPORT)

WO 9613052 P 960502 CA JP
WO AL DESIGNATED COUNTRIES FOR
REGIONAL PATENTS CITED IN A PUBLISHED
APPLICATION WITH SEARCH REPORT (DESIGNATED
COUNTRIES FOR REGIONAL PATENTS CITED IN A
PUBLISHED APPL. WITH SEARCH REPORT)
AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT
SE
WO 9613052 P 960502 WO A1 PUBLICATION OF THE INTERNATIONAL
APPLICATION WITH THE INTERNATIONAL SEARCH
REPORT (PUB. OF THE INTERNATIONAL APPL. WITH
THE INTERNATIONAL SEARCH REPORT)
WO 9613052 P 960704 WO DFPE REQUEST FOR PRELIMINARY
EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH
MONTH FROM PRIORITY DATE
WO 9613052 P 960807 WO 121 EP: PCT APP. ART. 158 (1) (EP:
PCT ANM. ART. 158 (1))
WO 9613052 P 980304 WO 122 EP: PCT APP. NOT ENT. EUROP.
PHASE (EP: PCT ANM. NICHT IN EUROP. PHASE
EING.)
WO 9613052 P 980624 WO NENP NON-ENTRY INTO THE NATIONAL
PHASE IN:
CA

lexis.com™

Practice Pages | Change Client | Options | Feedback | Sign Off | Help | ECLIPSE™ | History

Search | Search Advisor | Get a Document | Check a Citation | Sources

All Sources : Area of Law - By Topic : Patent Law : Law Reviews & Journals : Harvard Journal of Law & Technology 

Enter Search Terms

Terms and Connectors Natural Language

5712479 or 5,712,479 or 5504326 or 5,504,326

Use connectors to show relation of terms (cat or feline, Jane w/3 Doe) [more...](#)

 Suggest Words and Concepts for Entered Terms

 Restrict Search Using Document Segments

Optional: Restrict by Date

No Date Restrictions From To

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (**5712479 or 5,712,479 or 5504326 or 5,504,326**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

[Edit Search](#)

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

[Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.](#)

lexis.com™

Practice Pages | Change Client | Options | Feedback | Sign Off | Help | ECLIPSE™ | History

Search | Search Advisor | Get a Document | Check a Citation | Sources

All Sources : Area of Law - By Topic : Patent Law : Law Reviews & Journals : Journal of Law and Technology 

Enter Search Terms.

Terms and Connectors Natural Language

5712479 or 5,712,479 or 5504326 or 5,504,326

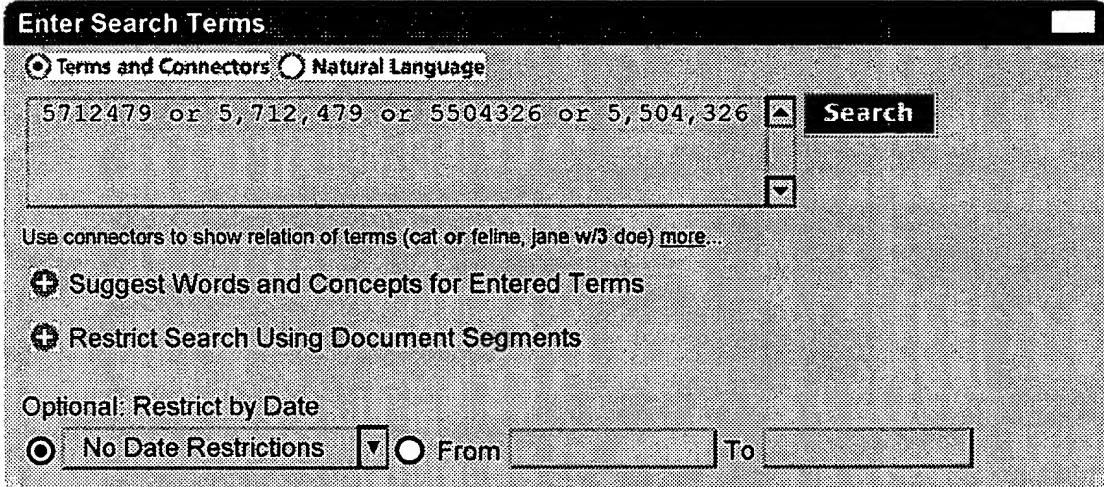
Use connectors to show relation of terms (cat or feline, jane w/3 doe) more...

Suggest Words and Concepts for Entered Terms

Restrict Search Using Document Segments

Optional: Restrict by Date

No Date Restrictions From _____ To _____



[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (**5712479 or 5,712,479 or 5504326 or 5,504,326**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

Edit Search

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

[Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.](#)

The screenshot shows the lexis.com search interface. At the top, there's a navigation bar with links for Practice Pages, Change Client, Options, Feedback, Sign Off, and Help. Below that is a secondary navigation bar with Search, Search Advisor, Get a Document, Check a Citation, ECLIPSE™, and History. The main area has a title 'All Sources : News : News Group File, All '. A large search input field contains the query '5712479 or 5,712,479 or 5504326 or 5,504,326'. To the right of the input is a 'Search' button. Below the input field is a note about connectors and a link to more information. There are two radio buttons: one for 'Terms and Connectors' (selected) and one for 'Natural Language'. Below the search input are three buttons: 'Suggest Words and Concepts for Entered Terms', 'Restrict Search Using Document Segments', and 'Optional: Restrict by Date'. Under 'Optional: Restrict by Date', there's a radio button for 'No Date Restrictions' and dropdown menus for 'From' and 'To'.

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (**5712479 or 5,712,479 or 5504326 or 5,504,326**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

[Edit Search](#)

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

[Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.](#)

Questel-Orbit:

1/1 LGST - (C) LEGSTAT
PN - US 5712479 [US5712479]
AP - US 566140/95 19951201 [1995US-0566140]
DT - US-P
ACT - 19951201 US/AE-A
APPLICATION DATA (PATENT)
{US 566140/95 19951201 [1995US-0566140]}
- 19980127 US/A
PATENT
- 19990713 US/RF
REISSUE APPLICATION FILED
19990601
UP - 1999-30

1/1 LGST - (C) LEGSTAT
PN - US 5504326 [US5504326]
AP - US 327618/94 19941024 [1994US-0327618]
DT - US-P
ACT - 19941024 US/AE-A
APPLICATION DATA (PATENT)
{US 327618/94 19941024 [1994US-0327618]}
- 19941024 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
INDIANA UNIVERSITY FOUNDATION SHOWALTER HOUSE P.O. BOX 500
BLOOMINGTON, INDIANA * REILLY, JAMES P. : 19941024; COLBY, STEVEN M. :
19941024; KING, TIMOTHY B. : 19941024
- 19960402 US/A
PATENT
- 19961224 US/CC
CERTIFICATE OF CORRECTION
UP - 1999-19

1/1 PAST - (C) PAST
AN - 199928-001535
PN - 5712479 A [US5712479]
DT - A (UTILITY)
OG - 1999-07-13
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

1/1 PAST - (C) PAST
AN - 199652-000110
PN - 5504326 A [US5504326]
DT - A (UTILITY)
OG - 1996-12-24
CO - COR
ACT - CERTIFICATE OF CORRECTION
SH - CERTIFICATE OF CORRECTION

1/1 CRXX - (C) CLAIMS/RRX
AN - 2935400
PN - 5,712,479 A 19980127 [US5712479]
PT - E (Electrical)
PA - Indiana University Foundation
ACT - 19990601 REISSUE REQUESTED
Issue Date of O.G.: 19990713
Reissue Request Number: 09/324098
Examination Group responsible for Reissue process: 2878

UP - 1999-27
UACT- 1999-07-13

1/1 CRXX - (C) CLAIMS/RRX
AN - 2704412
PN - 5,504,326 A 19960402 [US5504326]
PT - E (Electrical)
PA - Indiana University Foundation
ACT - 19971222 REASSIGNED
ASSIGNMENT OF ASSIGNOR'S INTEREST

Assignor: INDIANA UNIVERSITY FOUNDATION DATE SIGNED: 06/30/1997

Assignee: ADVANCED RESEARCH & TECHNOLOGY INSTITUTE 501 NORTH MORTON
STREET, SUITE 111 BLOOMINGTON, INDIANA 47404

Reel 008861/Frame 0293

Contact: LOCKE REYNOLDS BOYD & WEISELL A. JAMES RICHARDSON, ESQ. 1000
CAPITAL CENTER SOUTH 201 NORTH ILLINOIS ST. INDIANAPOLIS, IN 46204

UP - 1999-00